L Number	Hits	Search Text	DB	Time stamp
1	832	((oxidation oxidizing oxidize) with	USPAT;	2004/10/16
		<pre>((reducing reduction reduction) or redox) same (equilibrate equilibrium equilibrating))</pre>	US-PGPUB	18:33
2	891	((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) same (equilibrate equilibrium equilibrating))	USPAT; US-PGPUB	2004/10/16
3	839		USPAT; US-PGPUB	2004/10/16 19:37
4	793		USPAT; US-PGPUB	2004/10/16 18:38
5	443		USPAT; US-PGPUB	2004/10/16
6	378	(((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) with (equilibrate equilibrium equilibrating))) not (@ad>20020301 or @rlad>20020301)	USPAT; US-PGPUB	2004/10/16 18:38
8	56	<pre>(((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) with (equilibrate equilibrium equilibrating)) same (Control controlling controlled))</pre>	USPAT; US-PGPUB	2004/10/16
9	58	<pre>(((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) same (equilibrate equilibrium equilibrating))) and (metal and (organic with (vapor gas)))</pre>	USPAT; US-PGPUB	2004/10/16 18:43
10	52	((((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) same (equilibrate equilibrium equilibrating))) and (metal and (organic with (vapor gas)))) not (@ad>20030109 or @rlad>20030109)	USPAT; US-PGPUB	2004/10/16 18:43
	3	(((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) with (equilibrate equilibrium equilibrating)) same (Control controlling controlled))) and ((((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) same (equilibrate equilibrium equilibrating))) and (metal and (organic with (vapor gas)))) not (@ad>20030109 or @rlad>20030109))	USPAT; US-PGPUB	2004/10/16 18:43
12	49	<pre>(((((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) same (equilibrate equilibrium equilibrating))) and (metal and (organic with (vapor gas)))) not (@ad>20030109 or @rlad>20030109)) not (((oxidation oxidizing oxidize) with ((reducing reduction reduction) or redox) with (equilibrate equilibrium equilibrating)) same (Control controlling controlled)))</pre>	USPAT; US-PGPUB	2004/10/16
13	2	10/338647	USPAT; US-PGPUB	2004/10/16
14	2192	(438/3,5,7,635).CCLS.	USPAT;	2004/10/16
15	2063	(118/665,667,712,58).CCLS.	US-PGPUB USPAT; US-PGPUB	19:31 2004/10/16 19:37

Search History 10/16/04 7:42:09 PM Page 1

16	4243	((438/3,5,7,635).CCLS.) or	USPAT;	2004/10/16
		((118/665,667,712,58).CCLS.)	US-PGPUB	19:37
17	3976	(((438/3,5,7,635).CCLS.) or	USPAT;	2004/10/16
1 - '	3570		-	1
		((118/665,667,712,58).CCLS.)) not	US-PGPUB	19:37
		(@ad>20030109 or @rlad>20030109)		
18	6	((((438/3,5,7,635).CCLS.) or	USPAT;	2004/10/16
		((118/665,667,712,58).CCLS.)) not	US-PGPUB	19:39
		(@ad>20030109 or @rlad>20030109)) and		
		((oxidation oxidizing oxidize) same		
		((Oxidation Oxidizing Oxidize) Same		
		((reducing reduction reduction) or redox)		İ
	İ	same (equilibrate equilibrium		
		equilibrating))	'	}
19	165	((((438/3,5,7,635).CCLS.) or	USPAT;	2004/10/16
		((118/665,667,712,58).CCLS.)) not	US-PGPUB	19:39
İ		(@ad>20030109 or @rlad>20030109)) and		
	1	((oxidation oxidizing oxidize) same		
	1		,	i
		((reducing reduction reduction) or		ŀ
		redox))		
] ~	14763	ferroelectric	USPAT;	2003/10/27
1			US-PGPUB	07:54
l –	5	(YAMAWAKI-HIDEKI).in.	USPAT;	2003/10/27
1		\		•
	0777	Fanna 3 - Marie 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	US-PGPUB	07:56
-	8777	ferroelectric and (oxidation oxidizing	USPAT;	2003/10/27
ł		oxide oxidated)	US-PGPUB	08:06
-	1347		USPAT;	2003/10/27
		oxide oxidated)) and ((crystal	US-PGPUB	08:07
		crystalline) near2 orientation)		
_	4034	ferroelectric and ((oxidation oxidizing	USPAT;	2003/10/27
	1031	oxide oxidated) with (metal ruthenium		
İ	,		US-PGPUB	08:13
		iridium ru ir))		
-	419	(====================================	USPAT;	2003/10/27
		oxide oxidated) with (metal ruthenium	US-PGPUB	08:08
		iridium ru ir))) and ((crystal		
		crystalline) near2 orientation)		
_	1267	ferroelectric and ((oxidation oxidizing	USPAT;	2003/10/27
	1207	oxide oxidated) same (reducing		
			US-PGPUB	08:08
	100	reduction))		
-	182	(ferroelectric and ((oxidation oxidizing	USPAT;	2003/10/27
		oxide oxidated) same (reducing	US-PGPUB	10:26
		reduction))) and ((crystal crystalline)		
		near2 orientation)	l	
 	3586		USPAT;	2003/10/27
	5550		US-PGPUB	
	5160	///38/303_300\ ~~ /257/205 206\\ 707~		08:11
	3100	((438/393-399) or (257/295-296)).CCLS.	USPAT;	2003/10/27
			US-PGPUB	08:11
-	2599	((257/298) or (257/303-311)).CCLS.	USPAT;	2003/10/27
			US-PGPUB	08:12
-	8198	(((438/3) or (438/250-256)).CCLS.) or	USPAT;	2003/10/27
	į l	(((438/393-399) or (257/295-296)).CCLS.)	US-PGPUB	08:13
		or (((257/298) or (257/303-311)).CCLS.)	05 FGE0D	00.13
_	1824		110000	0000/10/05
	1044	((438/3) or (257/295)).CCLS.	USPAT;	2003/10/27
	_		US-PGPUB	14:46
-	6	ferroelectric and (((oxidation oxidizing	USPAT;	2003/10/27
	l	oxide oxidated) with (metal ruthenium	US-PGPUB	08:14
•		<pre>iridium ru ir)) same (reduction reducing)</pre>		
		same ((crystal crystalline) near		
		(orientation oriented orient)))		
_	184		HEDATE.	2003/10/07
		near? (reduction reduction oxidizing)	USPAT;	2003/10/27
		near2 (reduction reducing)) and (crystal	US-PGPUB	14:26
		crystalline))		
-	18	(ferroelectric and ((oxidation oxidizing)	USPAT;	2003/10/27
		near2 (reduction reducing)) and ((crystal	US-PGPUB	10:21
		<pre>crystalline) near2 orientation))</pre>		ļ
-	182	(ferroelectric and ((oxidation oxidizing	USPAT;	2003/10/27
		oxide oxidated) same (reducing	US-PGPUB	14:26
	į	reduction))) and ((crystal crystalline)	US-FGFUD	14.20
		noam2 emicration'		
		near2 orientation)		j i

	·		, -	
-	348	, ,	USPAT;	2003/10/27
		oxidizing) near2 (reduction reducing))	US-PGPUB	10:26
		and (crystal crystalline))) or		
	İ	((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline)		
		near2 orientation))	1	
-	166	, , , , , , , , , , , , , , , , , , ,	USPAT;	2003/10/27
		oxidizing) near2 (reduction reducing))	US-PGPUB	13:12
ł		and (crystal crystalline))) not		
		((ferroelectric and ((oxidation		
ļ ·		oxidizing) near2 (reduction reducing))		•
		and ((crystal crystalline) near2		
		orientation)))		
-	164	, , ,	USPAT;	2003/10/27
		oxide oxidated) same (reducing	US-PGPUB	13:33
		reduction))) and ((crystal crystalline)		
		near2 orientation)) not ((ferroelectric		
		and ((oxidation oxidizing) near2		
		(reduction reducing)) and (crystal		
1		crystalline)))	i	
-	14763	ferroelectric	USPAT;	2003/10/27
			US-PGPUB	13:33
_	5	ferroelectric and ((((oxidation	USPAT;	2003/10/27
	İ	oxidizing) with (reduction reducing)) or	US-PGPUB	14:26
		redox) same (equilibrium equilibrate		
		equilibrating equilabrated))		
l –	370		USPAT;	2003/10/27
		((oxidation oxidizing oxide oxidated)	US-PGPUB	14:25
		same (reducing reduction))) and ((crystal]
		crystalline) near2 orientation)		
-	549		USPAT;	2003/10/27
		((oxidation oxidizing) near2 (reduction	US-PGPUB	14:26
		reducing)) and (crystal crystalline))		
_	485		USPAT;	2003/10/27
		((oxidation oxidizing) near2 (reduction	US-PGPUB	14:27
		reducing)) and (crystal crystalline)))		=
		not (((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
	,	reduction))) and ((crystal crystalline)		
	1	near2 orientation)))		
_	267		USPAT;	2003/10/27
		((oxidation oxidizing oxide oxidated)	US-PGPUB	14:43
	1	same (reducing reduction))) and ((crystal		
		crystalline) near2 orientation)) not]
		(((ferroelectric and ((oxidation		1
		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline)		
1	1	near2 orientation)))		

				
-	468	((((piezoelectric perovskite) and	USPAT;	2003/10/27
		((oxidation oxidizing) near2 (reduction reducing)) and (crystal crystalline)))	US-PGPUB	14:55
		not (((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline)		
		near2 orientation)))) not		
		((((piezoelectric perovskite) and		
		((oxidation oxidizing oxide oxidated)		
		same (reducing reduction))) and ((crystal		
		crystalline) near2 orientation)) not (((ferroelectric and ((oxidation		
1		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or	İ	
	İ	((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing	.	
		reduction))) and ((crystal crystalline)		
		near2 orientation))))		
-	137	(((, (<u>P</u> = + + <u>P</u> + + <u>P</u> + + <u>P</u> + + <u>P</u>	USPAT;	2003/10/27
	-	((oxidation oxidizing) near2 (reduction	US-PGPUB	14:45
		reducing)) and (crystal crystalline)))		
		not (((ferroelectric and ((oxidation		
	1	oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing oxide oxidated) same (reducing	İ	
		reduction))) and ((crystal crystalline)		
		near2 orientation)))) not		
		((((piezoelectric perovskite) and		
		((oxidation oxidizing oxide oxidated)		
		same (reducing reduction))) and ((crystal		
		crystalline) near2 orientation)) not		
		(((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or	ļ	
		((ferroelectric and ((oxidation oxidizing oxide oxidated) same (reducing		1
		reduction))) and ((crystal crystalline)		1
		near2 orientation))))) and (equilibrium)		
_	1824		USPAT;	2003/10/27
		((100)0) 01 (201)230)).celb.	US-PGPUB	14:47
_	27	((((piezoelectric perovskite) and	USPAT;	2003/10/27
		((oxidation oxidizing) near2 (reduction	US-PGPUB	14:57
		reducing)) and (crystal crystalline)))		
		not (((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing reduction))) and ((crystal crystalline)		
	j į	near2 orientation)))) not		
		((((piezoelectric perovskite) and		
		((oxidation oxidizing oxide oxidated)		
		<pre>same (reducing reduction))) and ((crystal</pre>		
	l i	crystalline) near2 orientation)) not		
		(((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline) near2 orientation))))) and (438/\$.ccls.		
		or 257?\$.ccls.)		
_	1	(((438/3) or (257/295)).CCLS.) and	USPAT;	2003/10/27
	.	((((oxidation oxidizing oxidize) with	US-PGPUB	14:56
		(reducing reduction reduction)) or redox)	20 10100	- 1 - 2
		same (equilibrate equilibrium		
		equilibrating))		

	T	T		·
-	23	1 ((((())))	USPAT;	2003/10/27
	1	((oxidation oxidizing) near2 (reduction	US-PGPUB	15:00
i		reducing)) and (crystal crystalline)))		
		not (((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
ļ		and '(crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline)		1
		near2 orientation)))) not		
		((((piezoelectric perovskite) and		
		((oxidation oxidizing oxide oxidated)		
		same (reducing reduction))) and ((crystal		1
		crystalline) near2 orientation)) not		
		(((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		
1		and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
	1	reduction))) and ((crystal crystalline)		
		near2 orientation)))) and (438/\$.ccls.		
		or 257?\$.ccls.)) not (((((piezoelectric		
i		perovskite) and ((oxidation oxidizing)		1
		near2 (reduction reducing)) and (crystal] ·
		crystalline))) not (((ferroelectric and		.[
		((oxidation oxidizing) near2 (reduction		1
		reducing)) and (crystal crystalline))) or		
1		((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline)		1
		near2 orientation)))) not		
		((((piezoelectric perovskite) and		ļ
		((oxidation oxidizing oxide oxidated)		
		same (reducing reduction))) and ((crystal		
		crystalling reduction))) and ((crystal		
		crystalline) near2 orientation)) not		i
1		(((ferroelectric and ((oxidation		
		oxidizing) near2 (reduction reducing))		· 1
		and (crystal crystalline))) or		
	1	((ferroelectric and ((oxidation oxidizing		
		oxide oxidated) same (reducing		
		reduction))) and ((crystal crystalline)		
	200	near2 orientation))))) and (equilibrium))		
-	322	(((438/3) or (257/295)).CCLS.) and	USPAT;	2003/10/27
	ļ	(((oxidizing oxidation oxide oxidize)	US-PGPUB	15:02
]	with (reducing reduction reduce)) or		
		(redox))		
-	280	((((438/3) or (257/295)).CCLS.) and	USPAT;	2003/10/27
	[i	(((oxidizing oxidation oxide oxidize)	US-PGPUB	15:02
]	with (reducing reduction reduce)) or		
		<pre>(redox))) not (((ferroelectric and</pre>		· 1
		((oxidation oxidizing) near2 (reduction		j i
		reducing)) and (crystal crystalline))) or		
		((ferroelectric and ((oxidation oxidizing		. 1
		oxide oxidated) same (reducing		
1		reduction))) and ((crystal crystalline)		
1		near2 orientation)))		
_	26		USPAT;	2003/10/27
		US-5828080-\$ or US-5810923-\$ or	US-PGPUB	17:14
		US-6589839-\$ or US-6574130-\$ or		
		US-6518156-\$ or US-6436317-\$ or		
		US-6309894-\$ or US-6177361-\$ or		
]		US-6144546-\$ or US-5420102-\$ or		
		US-4361951-\$ or US-6596547-\$ or		
		US-6500678-\$ or US-6495412-\$ or	!	
		US-6334244-\$ or US-4812300-\$ or		
		US-6524867-\$ or US-6319542-\$ or		
[US-6204069-\$).did. or (US-20030113986-\$		
		or US-20030068579-\$ or US-20020179886-\$		
		or US-20020083959-\$ or		
L		US-20010015001-\$).did.		

- 26	((US-6235402-\$ or US-6146906-\$ or	USPAT;	2003/10/27
	US-5828080-\$ or US-5810923-\$ or	US-PGPUB	17:22
	US-6589839-\$ or US-6574130-\$ or		
	US-6518156-\$ or US-6436317-\$ or		
	US-6309894-\$ or US-6177361-\$ or		
 	US-6144546-\$ or US-5420102-\$ or		
	US-4361951-\$ or US-6596547-\$ or		1
	US-6500678-\$ or US-6495412-\$ or		1
	US-6334244-\$ or US-4812300-\$ or		
	US-6524867-\$ or US-6319542-\$ or		
	US-6204069-\$).did. or (US-20030113986-\$		i
	or US-20030068579-\$ or US-20020179886-\$		
	or US-20020083959-\$ or	<u> </u>	
	US-20010015001-\$).did.) and (oxidation		1.
	oxidizing oxide oxidized reducing		, ,
	reduction redox equilibrium equilibrate		
	equilibrated ferroelectric piezoelectric		
	perovskite)		